

VERSACOAT

VERSACOAT organic surfactant is a multi-functional additive which serves as an emulsifier and wetting agent in the VERSA* oil mud systems. Secondary benefits include improved thermal stability and High-Temperature, High-Pressure (HTHP) filtration control. The product is effective over a wide temperature range and in the presence of contaminants and for reducing the adverse effects of water contamination.*

Typical Physical Properties

Physical appearance.....	Dark amber, viscous liquid
Specific gravity	0.90-0.97
Flash point	83°F (28°C) (PMCC)
Pour point	-20°F (-28.9°C)

Applications

VERSACOAT additive functions as a wetting agent and secondary emulsifier when used in conventional, low-fluid-loss, high-lime systems in combination with VERSAMUL* additive. In this application, the product oil-wets barite and drill solids to prevent water-wet solids; it improves thermal stability, rheological stability, filtration control and emulsion stability; and it improves the fluid's resistance to contamination. Concentrations for initial formulations range from 1 to 3 lb/bbl (2.85 to 8.6 kg/m³) when used as a wetting agent, with occasional daily treatments.

VERSACOAT additive functions as the primary emulsifier when used in relaxed-fluid-loss, lower-lime systems, in combination with VERSAWET* additive. In this application, the product forms a stable, water-in-oil emulsion and provides a degree of oil-wetting. Concentrations for initial formulations range from 2 to 8 lb/bbl (5.7 to 22.8 kg/m³) when used as the primary emulsifier, with occasional daily treatments. High-temperature applications and some "light" mineral oils require higher concentrations of VERSACOAT agent.

VERSACOAT additive is a primary ingredient in all VERSA system formulations. Consult the M-I SWACO Drilling Fluids Engineering Manual or individual system information for specific formulations. The recommended treatment levels depend on the oil-water ratio, anticipated temperatures, desired properties and the other products used in the formulation. The VERSA family of systems includes VERSADREL* (diesel), VERSACLEAN* (mineral oil), VERSAPORT* (elevated low-shear-rate viscosity) and VERSACORE* (minimal-water) systems.

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Advantages

- Wide application, including higher-lime, conventional and lower-lime, relaxed VERSA systems
- Improves emulsion stability
- Improves oil-wetting and prevents water-wet solids
- Maintains stable water-in-oil emulsion and helps prevent water in HTHP filtrate
- Improves thermal stability, rheological stability, filtration control and contamination-resistance of oil-base muds
- Effective at counteracting the adverse effects of water contamination such as high viscosity, low-emulsion stability and water-wet solids

Limitations

- Overtreatment with VERSACOAT additive can thin VERSAPORT systems under certain conditions
- Environmental restrictions concerning the use of oils and oil-base fluids should be considered since VERSACOAT is used in conjunction with oil

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

VERSACOAT additive is packaged in 55-gal (208-L) drums and 5-gal (18.9-L) cans.

Store in a dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.



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FPM-2200-0705-01 (E)

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